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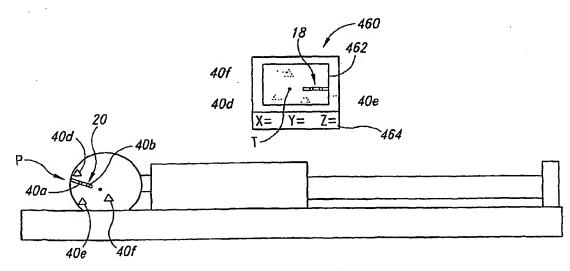
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(54) Title: METHODS AND APPARATUS FOR STIMULATING AND/OR SENSING NEURONS IN A PATIENT



(57) Abstract: Instruments and method of using instruments for implanting electrodes into a patient. The instrument can include a body configured to be implanted into a patient, an electrode contact carried by the body, and a marker carried by the body. The electrode contact has an electrically conductive surface exposed at a location along the body to sense electrical activity and/or deliver electrical stimulation to the target neural structure. The marker can include a transponder configured to be energized by a wirelessly transmitted excitation energy and to wirelessly transmit a location signal in response to the excitation energy. The instrument is tracked as it is implanted into the patient by time multiplexing the wirelessly transmitted excitation energy and the location signal such that the absolute location of the marker can be determined in real time.

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